Stud Center Finder, Metal and AC Live Wire Detector (TH570)

This stud finder is designed to locate both wood and metal studs while avoiding AC electrical wires. **This tool features five scanning modes to accommodate various wall material thicknesses.** (Order of modes 1 through 5 are indicated in parentheses below.)

(1) Stud 1/2 in. Scan Mode: Locates the center and edges of wood and metal studs up to 1/2 in. (13 mm) deep

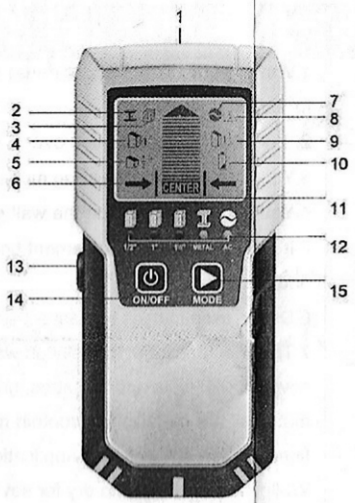
(2) Stud 1 in. Scan Mode: Locates the center and edges of wood and metal studs up to 1 in. (25 mm) deep

(3) Stud 1 1/2 in. Scan Mode: Locates the center and edges of wood and metal studs up to 1½ in. (38 mm) deep

(4) Metal Scan Mode: Detects metal up to 2.36 in. (60 mm) deep

(5) AC Scan Mode: Detects live unshielded AC wires up to 2 in. (51mm) deep

Note: You can use it on popcorn ceilings, plaster walls, textured surfaces, drywall, etc.but except the cement board wall and brick wall.

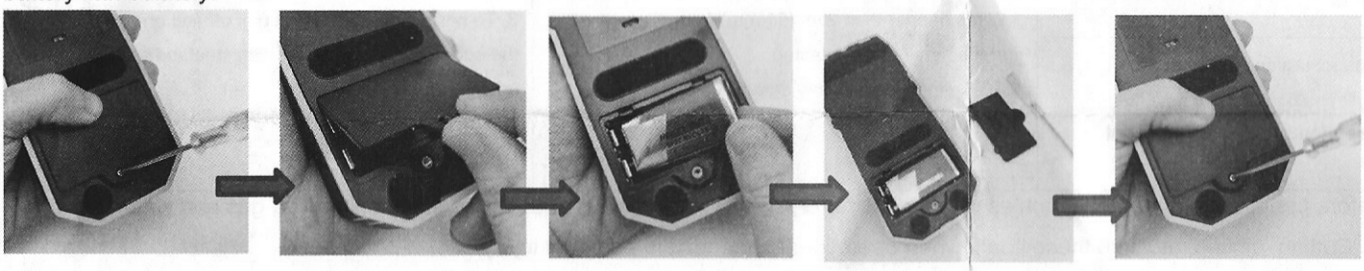


1. The Center Pointing System
2. Metal Scan Mode
3. Stud Scan Mode
4. Stud 1 in. Scan Mode
5. Stud 1/2 in. Scan Mode
6. Direction Indicator
7. AC Scan Mode
8. AC Wire Warning
9. Stud 1 1/2 in. Scan Mode
10. Low Battery Indication
11. Stud Center Indicator
12. Mode indicator
13. Scan Button
14. Power Button (ON/OFF Button)
15. Mode Button

INSTALLING THE BATTERY

A standard 9V battery must be installed before use. Please insert a new battery using caution to **match the positive (+) and negative (-) terminals with the battery leads**, as to not damage the tool.

Low Battery Indicator: The Low Battery Indicator icon displays when the battery level is low and insufficient to power the tool for proper operation. When the low battery indicator icon appears on the screen, Please replace the 9-volt battery with a new battery immediately.



CALIBRATION:

The operating principle and calibration of stud mode and metal mode:
This electronic stud finder looks for a change in density behind the wall material to locate wood and metal studs in modes 1 through 4. **Upon initial calibration, the finder records an initial density sample.** As the finder is moved flat across the surface, changes in density are used to locate a stud and then a tone will be heard when the finder is centered over a stud.(Slow steady movement works best). **Calibration should be performed at the beginning of each scan**

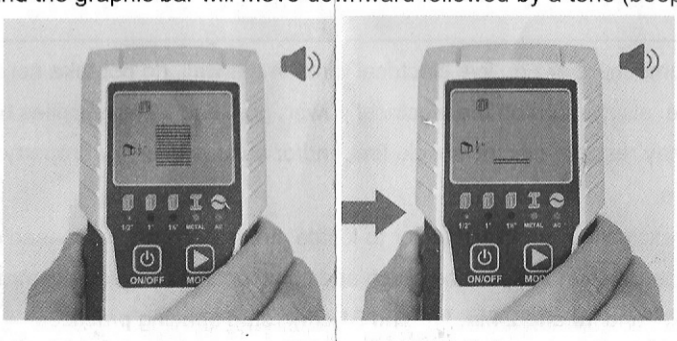
The operating principle and calibration of AC mode:
AC Electrical Wire scan mode finds live, unshielded, electrical wires up to 2 inches (51mm) deep. It works by **sensing the magnetic fields present near live AC electrical wires**. The device indicates the presence of an electrical wire but not an exact center as it does with wood studs. This mode is calibrated holding the device in the air away from any objects.

All in all, the calibration is very important for the detector to measure accurately. **Calibration should be performed at the beginning of each scan**

How to calibrate the tool:

Press the button located on the side. Calibration will begin and the graphic bar will move downward followed by a tone (beep) indicating calibration is complete.

Please note:
If you detect stud or metal in the stud and metal mode, please be sure to put the tool on the wall to calibrate before every scan.
If you detect the wire in the AC mode, please calibrate it in the air away from any objects before every scan.



STUD MODE DETECTION

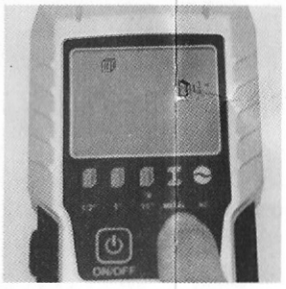
Use this stud scan mode to find the center and edges of wood or metal studs up to 1/2 in. (13 mm) , 1 in. (25 mm) and 1 1/2 in. deep.For best results, always start from 1/2 in mode when looking for studs and gradually increase the detection depth to 1 in. (25 mm) and 11/2 in. deep.

Step 1: Press button to choose the " 1/2 in. Scan mode" "1 in. Scan mode" or "1 1/2 in. Scan mode"

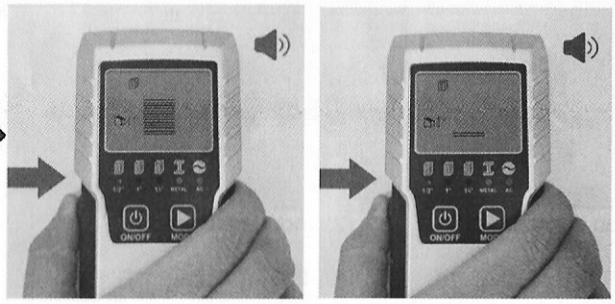
Step 2: Put the tool on the wall and press the button located on the side. Calibration will begin and the graphic bar will move downward followed by a tone (beep) indicating calibration is complete.

Step3: Move the stud finder horizontally across the surface until a rise in the bar graph is displayed. Like pictures shown. Please note the directional arrows to each side of the bar graph. These arrows will display to indicate which direction the device should be moved to reach the exact center of the stud. If it finds nothing, please repeat the above steps (calibrate it on a new place on the wall and move it to scan)

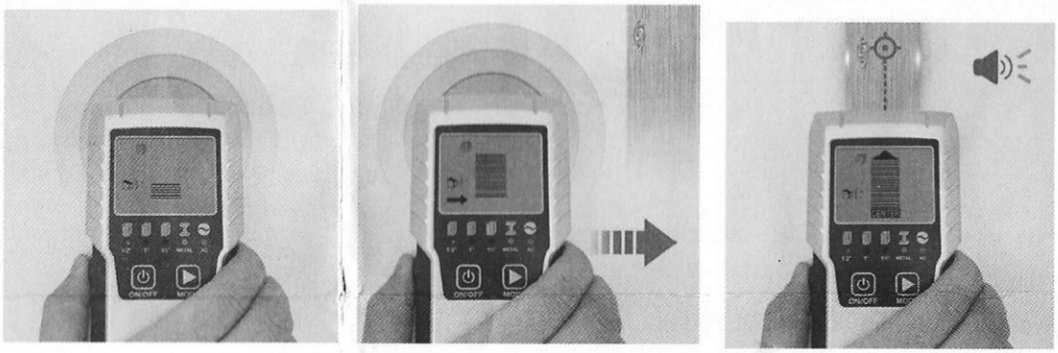
(1)Turn on the tool



(2)Choose the mode

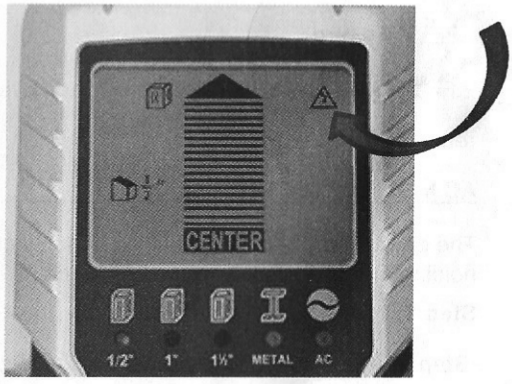


(3)Put it on the wall and Press the side button to calibrate



(4) Slowly and steadily move it on the wall,the screen indicates the location(If it finds nothing, please repeat the above steps.)

Note:



1. **Wire Warning detection works in all modes. The indicator flashes on the screen when detecting a live, unshielded wire.**

2. If Stud Scan 1/2 in. (13 mm) Mode provides irregular readings, the wood or studs might be behind deeper than 0.5 in. (13 mm). **Slide the Mode Selector Switch to Deeper Scan Mode :**1 in. (25 mm) and 1 1/2 in

3.Factors like humidity, temperature, and even the minor electric readings from your hand, which all have an impact on the readings from the wall.

4.If you happen to calibrate it on where there is a stud/metal behind, the tool will also have no display on the screen.Please calibrate it at another place and repeat the above steps.

Important: Confirm it is a metal stud or wooden stud

Because the stud finders are looking for **a change in density behind wall in the wooden stud mode, it will also detect metal studs.** To help discern the stud material (wood/metal),take the Metal Mode Scan (Steps please refer to the METAL MODE SCAN below) where a stud has been located and marked. If there is no display on the screen in metal mode, it is a wood. If there is signal on the screen in metal mode, it is a metal(you will need to repeat the above steps to find the real stud).

METAL MODE DETECTION

Use this mode to locate metal material and avoid hazards such as pipes behind wall up to 2.36 in(60 mm) deep.
Metal scan mode has Maximum metal sensitivity and is ideal for quickly finding the approximate location of metal. However, sensitivity can be reduced by calibrating the tool closer to metal.For maximum metal sensitivity, please calibrate it often for each one meter's scan.

Step 1: Press button to choose the **"Metal mode"**

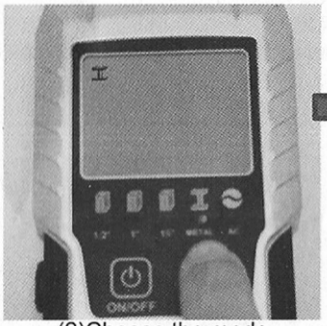
Step 2: Put the tool on the wall and press the button located on the side. Calibration will begin and the graphic bar will move downward followed by a tone (beep) indicating calibration is complete.

Step 3: Move it flat against the wall to scan.

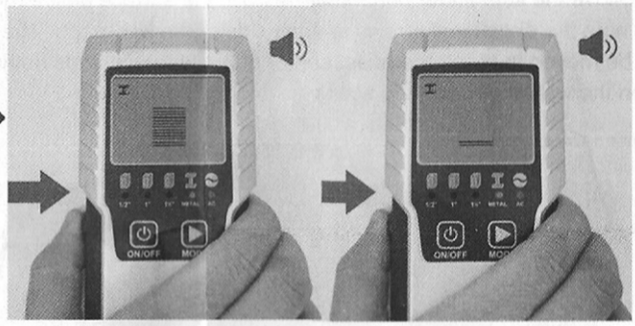
Step 4: When the signal bar is full, mark the spot. Then move it in the same direction, you will get another spot where the signal bar is full.The metal is at the center of the 2 spots.

Step 5: If the distance between the 2 spots is very long than actual size, please reduce the metal sensitivity by calibrating it on the wall and exactly on the spot, then repeat the step 4 to find the 2 spot. The metal is at the center of the 2 spots.

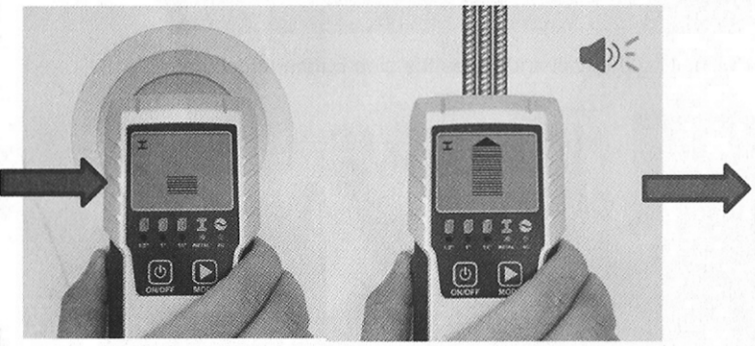
(1)Turn on the tool



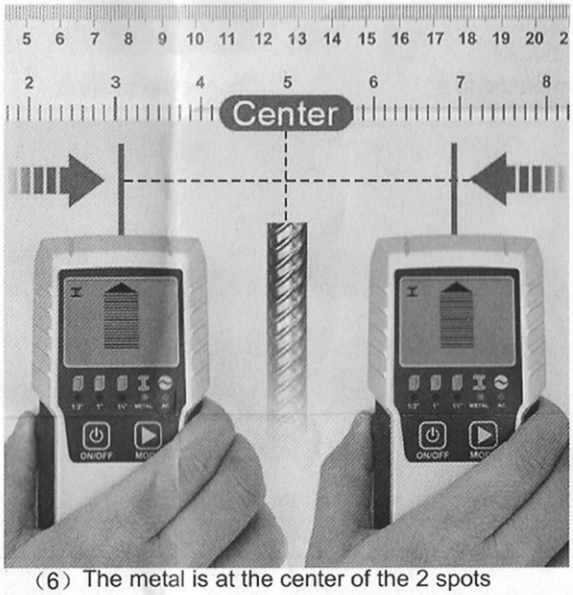
(2)Choose the mode



(3)Put it on the wall and Press the side button to calibrate



(5) Slowly and steadily move it on the wall



(6) The metal is at the center of the 2 spots

Please note: 1. Wire Warning detection works in all modes.

The indicator flashes on the screen when detecting a live, unshielded wire.

2.Factors like humidity, temperature, and even the minor electric readings from your hand, which all have an impact on the readings from the wall.

AC MODE DETECTION

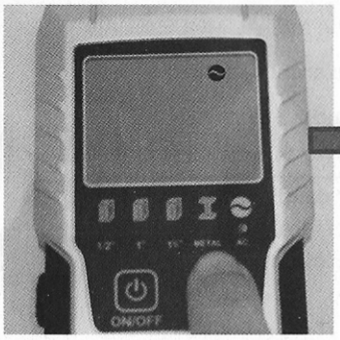
The device indicates the presence of an electrical wire but not an exact center as it does with wood studs.(This mode is calibrated holding the device away from any objects.).

Step 1: Press button to choose the **"Ac wire mode"**

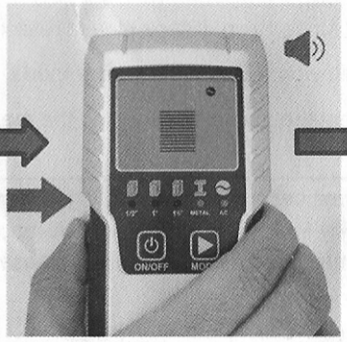
Step 2: Press the calibrate button while holding the tool steady and wait for the calibration confirmation tone.

Step 3: Place the device against the surface and move across the area to be scanned. The bar graph will rise and a tone will be emitted at locations of suspected live electrical wiring.

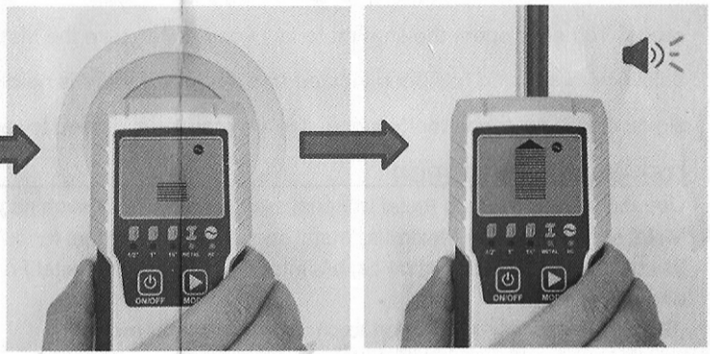
Step 4: Mark where the strongest signal appears.



Turn it on and Choose the mode



Put it in a air to calibrate



Slowly and steadily move it on the wall

Note:1.AC Scan will only detect live (hot) unshielded AC wiring.
2.Factors like humidity, temperature, and even the minor electric readings from your hand, which all have an impact on the readings from the wall.

FAQ:

QUESTIONS	CAUSE	SOLUTIONS
The screen shows nothing. No readings at all It gives a different center of stud position every time on the same stud It was not consistent Stud mode:It works for one stud and not the next It rarely find the same center or edge twice; it is wrong 3 out of 5 times.	1.Wall is particularly thick or dense or too wet for unit to operate. 2. You may have calibrated over a stud/metal. 3.You may choose the wrong mode 4.You may not move it on the wall properly 5.It can't be used on the cement board wall and brick wall. 6.Due to irregularities in plaster thickness 7.This tool functions normally on walls covered with wallpaper or fabric, unless the materials are metallic foil, contain metallic fibers, or are still wet after application. Wallpaper may need to dry for several weeks after application. 8.Freshly painted walls: May take one week or longer to dry after application.	**1.Calibration!**For maximum metal sensitivity, You may need to knock on the wall from left to right to discern a hollow sound where gaps likely exist between studs, and choose a portion of the wall where no stud or wiring should exist to calibrate the tool. And please calibrate it often for each one meter's scan. 2. Switch to Deeper Scan mode to locate the stud. (for stud mode) 3. If you are using unit on a recently taped, painted, or wallpapered wall, allow time to dry and try again 4.Due to irregularities in plaster thickness, it is difficult for the tool to locate studs in Stud modes. Change to Metal Scan mode to locate the nail heads holing wood lath to the studs. If the plaster has metal mesh reinforcement,it may be unable to detect through that material.
You suspect electrical wires, but do not detect any Reading AC wires everywhere. Not accurate **Note:** If the tool still doesn't work as expected, please be sure to contact us at **Povlenservice@hotmail.com** to get a **refund**.	1. Wires may be shielded behind metallic wall coverings, plywood shear wall, or other dense material, or in conduit 2.The wires may not be live. 3.Wires deeper than 2 in. (51 mm) from surface may not be detected. 4.AC Scan mode will only detect live (hot) unshielded AC wiring.	1. Calibrate the tool in the air or on the wall before you use 2.Try Metal Scan mode to check whether there is metal, wire, or metal conduit. 3. To narrow detection, turn unit off and on again at the edge of where wire was detected and scan again.

Note: Before penetrating a surface (such as with a drill, router, saw or nail), always shut off the electrical power, gas and water supplies. Cutting, drilling, etc. into these items when operational can result in personal injury.

RETURN AND REFUND

If you are not satisfied with the product, or it has something wrong, we prepared 2 return methods for your choice:

1. Contact Amazon customer service or open the return process on Amazon >>Wait for Amazon to check and pick up the item ;

2. Send an email to Povlenservice@hotmail.com with your order number and the reason for return>> You may get a refund directly and don't need to return the item or other 100% satisfying solutions .(Recommended)

The product is covered by extremely-easy-return service. And the method 2 is recommended. Your satisfaction is our goal!

WARRANTY

Our items have a strict quality inspection process, and adhere to the principle of delivery after reaching the quality standard. If you accidentally receive a product with quality problems, **please be sure to contact us at Povlenservice@hotmail.com in time, our customer service will arrange a full refund for you, and send a small gift to express our apology.**

In addition, the products have a TWO-YEAR warranty. **If there is any quality problem within 2 years, please contact us at Povlenservice@hotmail.com to apply for a full refund or a new product for free.**

We will be honored if you like our products and services. **If you can share your shopping experience on the website where you buy it from, or share it with your friends or on the Facebook, Twitter,Tiktok, etc.,** we will be very grateful!

WARNING

1.Do not assume there are no live electrical wires in the wall. do not take actions that could be dangerous if the wall contains a live electrical wire. always turn off the electrical power, gas, and water supplies before penetrating a surface. failure to follow these instructions may result in electric shock, fire, and/or serious injury or property damage. Always turn off power when working near electrical wires.

2.Do not rely exclusively on the detector to locate items behind the scanned surface. Use other information sources to help locate items before penetrating the surface. Such additional sources include construction plans, visible points of entry of pipes and wiring into walls.walls, and 16 and 24 in. (41 and 61 cm) stud spacing practices.